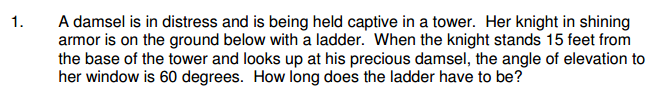
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Per.: \_\_\_\_\_\_\_\_

**5.3 Introduction to Trigonometry Word Problems**

Notes:



1. Ben is flying a kite directly over his buddy Franklin, who is 125 meters away. The kite string makes a 39o angle with the ground (which is level). How high is the kite?

2. Juliet is standing atop a 15-foot balcony when she spots Romeo at an angle of depression of 5o. How far away is Romeo from the base of the balcony?

3. A park ranger, on top of a 200-foot tower, spots a wolf at an angle of depression of 14o. How far is the wolf from the base of the tower? (Note: The ground is level.)